

**AMENDMENTS TO THE CLAIMS**

Claims 1-9 canceled.

10. (New) A peptide having an amino acid sequence FHGGSWYRFPWGY as shown in SEQ ID NO: 1.

11. (New) The peptide of claim 10, wherein the peptide is a potassium channel modulator.

12. (New) The peptide of claim 10, wherein the peptide is synthetically produced.

13. (New) A process for the preparation of the peptide of claim 10, wherein said process comprising:

purifying said peptide by a chromatographic method.

14. (New) The process of claim 13, wherein said peptide is isolated from venom of a vermivorous cone snail.

15. (New) The process of claim 14, wherein the vermivorous cone snail is *Conus monile*.

16. (New) The process of claim 13, wherein the purification is carried out by HPLC (High Performance Liquid Chromatography).

17. (New) A pharmaceutical composition comprising, as an active ingredient, the peptide of claim 10 together with one or more pharmaceutically acceptable carriers or excipients.

18. (New) A method for the treatment of neurophysiological disorders, the method comprising administering to a subject in need thereof an effective amount of a compound according to claim 10 or of a pharmaceutical composition comprising the same.

19. (New) A method for the treatment of neurological disorders, the method comprising administering to a subject in need thereof an effective amount of a compound according to claim 10 or of a pharmaceutical composition comprising the same.

20. (New) A method for the treatment of epilepsy, the method comprising administering to a subject in need thereof an effective amount of a compound according to claim 10 or of a pharmaceutical composition comprising the same.

21. (New) A method for the treatment of a heart disorder, the method comprising administering to a subject in need thereof an effective amount of a compound according to claim 10 or of a pharmaceutical composition comprising the same.

22. (New) The method of claim 21, wherein the heart disorder is arrhythmia.

23. (New) A method for the treatment of schizophrenia, the method comprising administering to a subject in need thereof an effective amount of a compound according to claim 10 or of a pharmaceutical composition comprising the same.